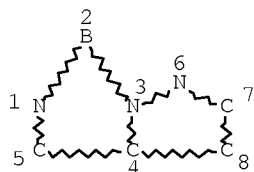


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L11 STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE  
L13 17 SEA FILE=REGISTRY SSS FUL L11  
L14 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L13

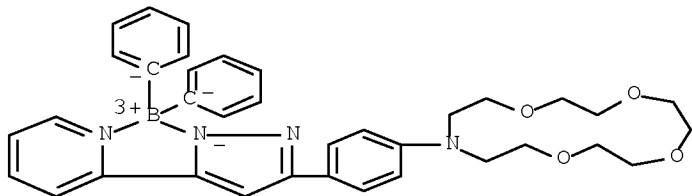
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L14 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:1307141 HCAPLUS Full-text  
DOCUMENT NUMBER: 144:265998  
TITLE: Design and synthesis of iridium(III) azacrown  
complex: application as a highly sensitive metal  
cation phosphorescence sensor  
AUTHOR(S): Ho, Mei-Lin; Hwang, Fu-Ming; Chen, Pei-Nung; Hu,  
Ya-Hui; Cheng, Yi-Ming; Chen, Kung-Shih; Lee,  
Gene-Hsiang; Chi, Yun; Chou, Pi-Tai  
CORPORATE SOURCE: Department of Chemistry, National Taiwan  
University, Taipei, 106, Taiwan  
SOURCE: Organic & Biomolecular Chemistry (2006), 4(1),  
98-103  
CODEN: OBCRAK; ISSN: 1477-0520  
PUBLISHER: Royal Society of Chemistry  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 144:265998  
ED Entered STN: 15 Dec 2005  
AB A new metal cation probe 1 bearing a central Ir(III) element and 1-aza-15-  
crown-5-ether substituted pyridyl pyrazolate as the chelate was synthesized.  
The octahedral mol. structure of 1 was confirmed using single crystal x-ray  
diffraction analyses. Subsequent photophys. study showed yellow-green  
emission at .apprx.560 nm in both fluid solution and solid state at room  
temperature Remarkable differentiation in spectral properties upon metal  
cation (e.g. Ca2+) complexation makes complex 1 a highly sensitive  
phosphorescence probe.  
IT 877467-43-1F

(preparation and properties of)

RN 877467-43-1 HCAPLUS

CN Boron, diphenyl[13-[4-[5-(2-pyridinyl-κN)-1H-pyrazol-3-yl-κN1]phenyl]-1,4,7,10-tetraoxa-13-azacyclopentadecanato]-, (T-4)-  
(CA INDEX NAME)



CC 79-3 (Inorganic Analytical Chemistry)

IT 877467-42-0P 877467-43-1P

(preparation and properties of)

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE  
RE FORMAT

L14 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:803045 HCAPLUS Full-text

DOCUMENT NUMBER: 141:322273

TITLE: Boron complexes and their preparation and  
electroluminescent devices employing them

INVENTOR(S): Kathirgamanathan, Poopathy; Kirkham, Matthew  
Samuel; Lay, Alexander Kit; Ganeshamurugan,  
Subramaniam; Paramaswara, Gnanamoly; Kumaraverl,  
Muttulingam; Partheepan, Arumugam; Selvaranjan,  
Selvadurai; Antipan-lara, Juan; Price, Richard;  
Surendrakumar, Sivagnanasumdrum

PATENT ASSIGNEE(S): Elam-T Limited, UK

SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

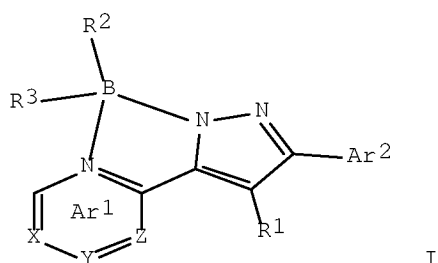
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004084325	A1	20040930	WO 2004-GB1079	20040312
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				

10/549,430

EP 1620905	A1	20060201	EP 2004-720060	20040312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,				
PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
JP 2006520772	T	20060914	JP 2006-505961	20040312
US 2007042219	A1	20070222	US 2005-549430	20050915
PRIORITY APPLN. INFO.:			GB 2003-6097	A 20030315
			WO 2004-GB1079	W 20040312

OTHER SOURCE(S): MARPAT 141:322273  
 ED Entered STN: 01 Oct 2004  
 GI



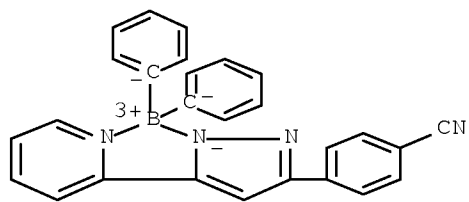
AB Boron complexes are described by the general formula I (Ar = (un)substituted monocyclic or polycyclic heteroaryl with a ring N for forming a coordination bond to B as indicated and optionally  $\geq 1$  addnl. ring N subject to the proviso that Ns do not occur in adjacent positions; X and Z = C or N; Y = C or optionally N if neither of X and Z = N; the substituents if present being (un)substituted hydrocarbyl, (un)substituted hydrocarbyloxy, fluorocarbon, halo, nitrile, aminoalkylamino, dialkylamino, or thiophenyl; Ar2 = monocyclic or polycyclic aryl or heteroaryl substituted with  $\geq 0$  substituents selected from (un)substituted hydrocarbyl, (un)substituted hydrocarbyloxy, fluorocarbon, halo, nitrile, amino, alkylamino, dialkylamino or thiophenyl; R1 = H, (un)substituted hydrocarbyl, halohydrocarbyl or halo; and R2 and R3 = independently selected alkyl, cycloalkyl, cycloalkylalkyl, haloalkyl, halo or monocyclic or polycyclic aryl, heteroaryl, aralkyl, or heteroaralkyl optionally substituted with  $\geq 1$  alkyl, cycloalkyl, cycloalkylalkyl, haloalkyl, aryl, aralkyl, alkoxy, aryloxy, halo, nitrile, amino, alkylamino, or dialkylamino group). Methods of preparing the compds. are described which entail condensing a diketone with hydrazine to give a pyrazole and esterifying the pyrazole with an acid described by the general formula R2R3BOH or an anhydride described by the general formula R2R3BOBR3R2. Electroluminescent devices employing the compds. are also described.

IT 767340-42-1 767340-43-2 767340-44-3  
 767340-45-4 767340-46-5 767340-47-6  
 767340-48-7 767340-49-8

(boron complexes and their preparation and electroluminescent devices employing them)

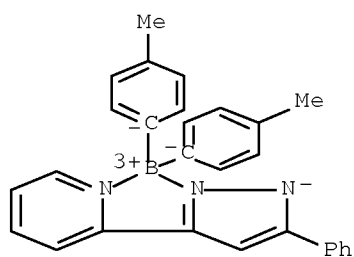
RN 767340-42-1 HCAPLUS

CN Boron, diphenyl[4-[5-(2-pyridinyl-κN)-1H-pyrazol-3-yl-κN1]benzonitrilato]-, (T-4)- (CA INDEX NAME)



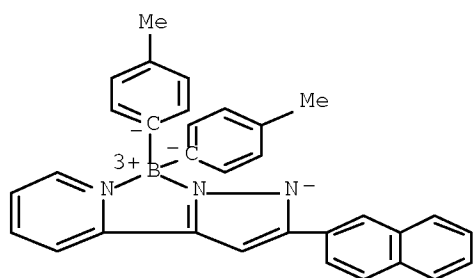
RN 767340-43-2 HCAPLUS

CN Boron, bis(4-methylphenyl) [2-(5-phenyl-1H-pyrazol-3-yl- $\kappa$ N2)pyridinato- $\kappa$ N]-, (T-4)- (CA INDEX NAME)



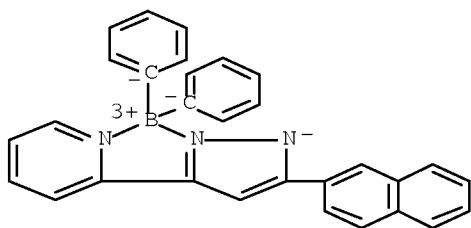
RN 767340-44-3 HCAPLUS

CN Boron, bis(4-methylphenyl) [2-[5-(2-naphthalenyl)-1H-pyrazol-3-yl- $\kappa$ N2]pyridinato- $\kappa$ N]-, (T-4)- (CA INDEX NAME)



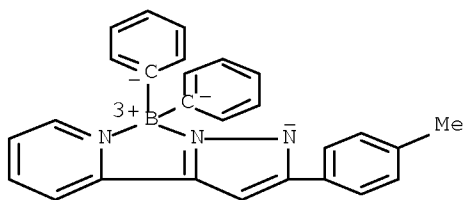
RN 767340-45-4 HCAPLUS

CN Boron, [2-[5-(2-naphthalenyl)-1H-pyrazol-3-yl- $\kappa$ N2]pyridinato- $\kappa$ N]diphenyl-, (T-4)- (CA INDEX NAME)



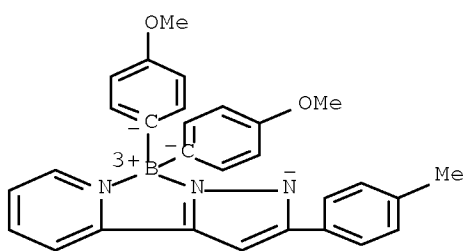
RN 767340-46-5 HCAPLUS

CN Boron, [2-[5-(4-methylphenyl)-1H-pyrazol-3-yl-κN2]pyridinato-κN]diphenyl-, (T-4)- (CA INDEX NAME)



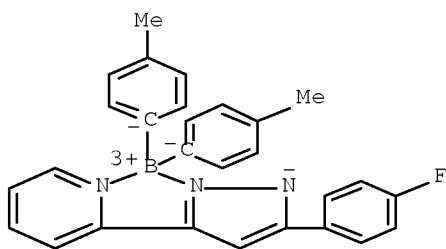
RN 767340-47-6 HCAPLUS

CN Boron, bis(4-methoxyphenyl)[2-[5-(4-methylphenyl)-1H-pyrazol-3-yl-κN2]pyridinato-κN]-, (T-4)- (CA INDEX NAME)



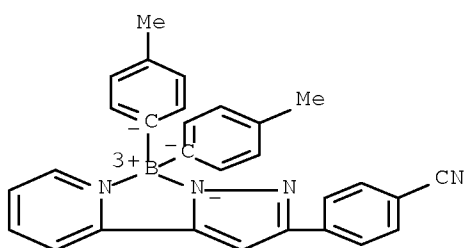
RN 767340-48-7 HCAPLUS

CN Boron, [2-[5-(4-fluorophenyl)-1H-pyrazol-3-yl-κN2]pyridinato-κN]bis(4-methylphenyl)-, (T-4)- (CA INDEX NAME)



RN 767340-49-8 HCAPLUS

CN Boron, bis(4-methylphenyl)[4-[5-(2-pyridinyl-κN)-1H-pyrazol-3-yl-κN1]benzonitrilato]-, (T-4)- (CA INDEX NAME)

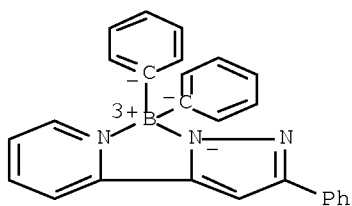


IT 671791-16-5P 767340-41-0P

(boron complexes and their preparation and electroluminescent devices employing them)

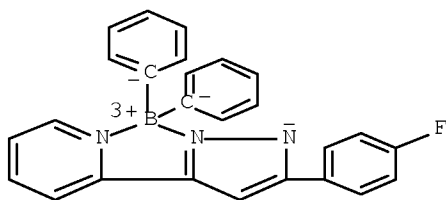
RN 671791-16-5 HCAPLUS

CN Boron, diphenyl[2-(3-phenyl-1H-pyrazol-5-yl-κN1)pyridinato-κN]-, (T-4)- (CA INDEX NAME)



RN 767340-41-0 HCAPLUS

CN Boron, [2-[5-(4-fluorophenyl)-1H-pyrazol-3-yl-κN2]pyridinato-κN]diphenyl-, (T-4)- (CA INDEX NAME)



IC ICM H01L051-30  
ICS C09K011-06; H05B033-14; C07F005-02  
CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)  
Section cross-reference(s): 29, 76  
IT 767340-42-1 767340-43-2 767340-44-3  
767340-45-4 767340-46-5 767340-47-6  
767340-48-7 767340-49-8  
(boron complexes and their preparation and electroluminescent devices employing them)  
IT 671791-16-5P 767340-41-0P  
(boron complexes and their preparation and electroluminescent devices employing them)  
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:832625 HCAPLUS Full-text

DOCUMENT NUMBER: 140:34915

TITLE: Synthesis and Characterization of Metal Complexes Possessing the 5-(2-Pyridyl) Pyrazolate Ligands: The Observation of Remarkable Osmium-Induced Blue Phosphorescence in Solution at Room Temperature

AUTHOR(S): Wu, Pei-Chi; Yu, Jen-Kan; Song, Yi-Hwa; Chi, Yun; Chou, Pi-Tai; Peng, Shie-Ming; Lee, Gene-Hsiang

CORPORATE SOURCE: Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan, 300, Peop. Rep. China

SOURCE: Organometallics (2003), 22(24), 4938-4946

CODEN: ORGND7; ISSN: 0276-7333

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

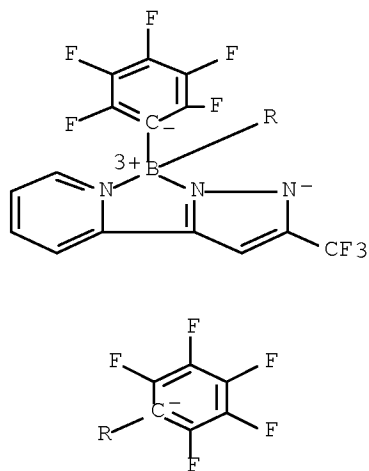
OTHER SOURCE(S): CASREACT 140:34915

ED Entered STN: 24 Oct 2003

AB A total of three distinctive main group and transition metal complexes containing the 2-pyridyl pyrazolate (pypz) ligand were prepared, namely, [B(C6F5)2(pypz)] (1), [Ru(CO)2(pypz)2] (2), and [Os(CO)2(pypz)2] (3), where (pypz)H = 3-trifluoromethyl-5-(2-pyridyl)pyrazole. Single-crystal x-ray diffraction studies were carried out on complexes 2 and 3, revealing octahedral coordination geometry with two CO ligands located at cis dispositions. While the pypz ligand arrangement for complex 2 is in cis-(Npy,Npy) and trans-(Npz,Npz), complex 3 reveals a different configuration, cis-(Npz,Npz) and trans-(Npy,Npy) (Npy for pyridine-N and Npz for pyrazolate donor sites). Similar to that of the in-situ-prepared pypz anion, the boron complex [B(C6F5)2(pypz)] (1) exhibits a strong emission centered at 380 nm, which is unambiguously assigned to fluorescence derived from the S1( $\pi\pi^*$ )  $\rightarrow$  S0 transition. In contrast to the nonluminescent behavior for Ru complex 2, the

Os complex 3 displays unique, strong room-temperature phosphorescence, showing vibronic progressions at 430, 457, and 480 nm. The remarkable differences in photophys. properties were rationalized by a combination of  $\pi$ -electron accepting CO ligand, relative pypz orientation, and heavy-atom-enhanced spin-orbit coupling effects.

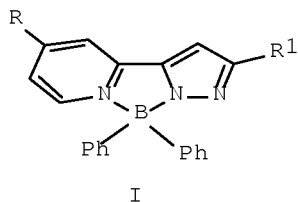
IT 634606-62-5P  
(preparation and fluorescence)  
RN 634606-62-5 HCAPLUS  
CN Boron, bis(pentafluorophenyl) [2-[5-(trifluoromethyl)-1H-pyrazol-3-yl]pyridinato- $\kappa$ N]-, (T-4)- (9CI) (CA INDEX NAME)



CC 78-7 (Inorganic Chemicals and Reactions)  
Section cross-reference(s): 29, 73, 74, 75  
IT 634606-62-5P  
(preparation and fluorescence)  
REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:792131 HCAPLUS [Full-text](#)  
DOCUMENT NUMBER: 140:253602  
TITLE: Syntheses and remarkable photophysical properties of 5-(2-pyridyl) pyrazolate boron complexes; photoinduced electron transfer  
AUTHOR(S): Cheng, Chung-Chih; Yu, Wei-Shan; Chou, Pi-Tai; Peng, Shie-Ming; Lee, Gene-Hsiang; Wu, Pei-Chi; Song, Yi-Hwa; Chi, Yun  
CORPORATE SOURCE: Department of Chemistry, Fu-Jen Catholic University, Shin Chuang, Taiwan  
SOURCE: Chemical Communications (Cambridge, United Kingdom) (2003), (20), 2628-2629  
CODEN: CHCOFS; ISSN: 1359-7345  
PUBLISHER: Royal Society of Chemistry  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 140:253602  
ED Entered STN: 10 Oct 2003  
GI





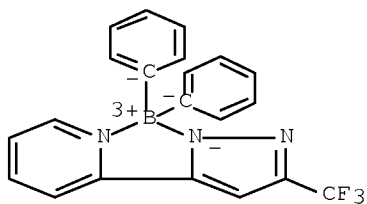
AB A new series of pyridyl pyrazolate boron complexes I (R1 = CF<sub>3</sub>, C<sub>2</sub>F<sub>5</sub>, Ph, t-Bu, R = H; R1 = CF<sub>3</sub>, R = Me) have been synthesized via reaction of 2'-(2-pyridyl)pyrazoles with BPh<sub>3</sub> in THF. I exhibit remarkable dual fluorescence properties due to the photoinduced electron transfer reaction.

IT 671791-13-2P

(crystal structure; syntheses, photophys. properties, and photoinduced electron transfer of pyridyl pyrazolate boron complexes)

RN 671791-13-2 HCAPLUS

CN Boron, diphenyl[2-[3-(trifluoromethyl)-1H-pyrazol-5-yl-κN1]pyridinato-κN]-, (T-4)- (CA INDEX NAME)

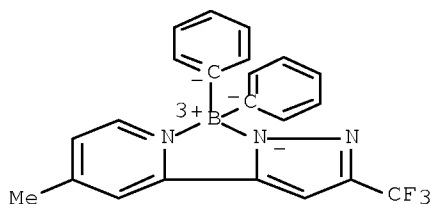


IT 671791-14-3P 671791-15-4P 671791-16-5P  
671791-17-6P 671791-19-8P

(syntheses, photophys. properties, and photoinduced electron transfer of pyridyl pyrazolate boron complexes)

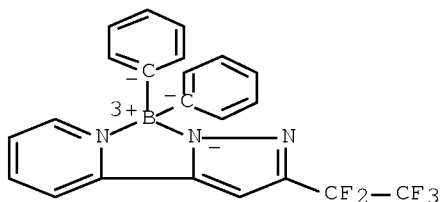
RN 671791-14-3 HCAPLUS

CN Boron, [4-methyl-2-[3-(trifluoromethyl)-1H-pyrazol-5-yl-κN1]pyridinato-κN]diphenyl-, (T-4)- (CA INDEX NAME)



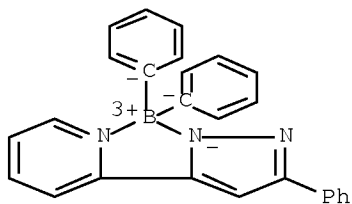
RN 671791-15-4 HCAPLUS

CN Boron, [2-[3-(pentafluoroethyl)-1H-pyrazol-5-yl-κN1]pyridinato-κN]diphenyl-, (T-4)- (9CI) (CA INDEX NAME)



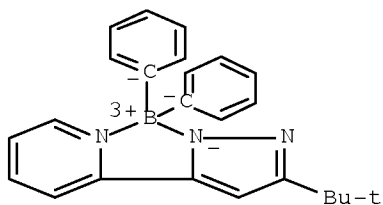
RN 671791-16-5 HCAPLUS

CN Boron, diphenyl[2-(3-phenyl-1H-pyrazol-5-yl-κN1)pyridinato-κN]-, (T-4)- (CA INDEX NAME)



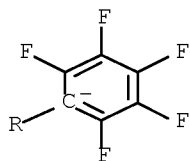
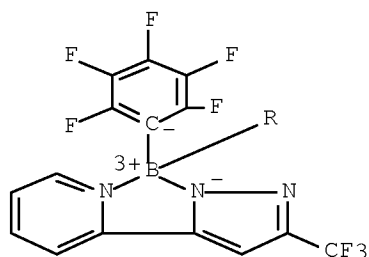
RN 671791-17-6 HCAPLUS

CN Boron, [2-[3-(1,1-dimethylethyl)-1H-pyrazol-5-yl-κN1]pyridinato-κN]diphenyl-, (T-4)- (CA INDEX NAME)



RN 671791-19-8 HCAPLUS

CN Boron, bis(pentafluorophenyl)[2-[3-(trifluoromethyl)-1H-pyrazol-5-yl-κN1]pyridinato-κN]-, (T-4)- (9CI) (CA INDEX NAME)



CC 29-4 (Organometallic and Organometalloidal Compounds)

Section cross-reference(s): 22, 75

IT 671791-13-2P

(crystal structure; syntheses, photophys. properties, and photoinduced electron transfer of pyridyl pyrazolate boron complexes)

IT 671791-14-3P 671791-15-4P 671791-16-5P

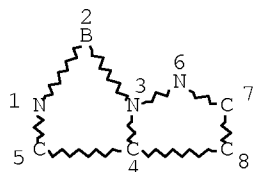
671791-17-6P 671791-19-8P

(syntheses, photophys. properties, and photoinduced electron transfer of pyridyl pyrazolate boron complexes)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L11 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

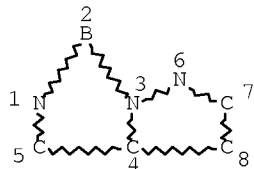
STEREO ATTRIBUTES: NONE

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L15 0 SEA FILE=CAOLD ABB=ON PLU=ON L13

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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

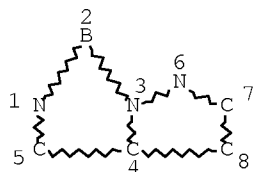
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L11 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

## STEREO ATTRIBUTES: NONE

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L14 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L13

L19 2 SEA FILE=MARPAT SSS FUL L11

L20 1 SEA FILE=MARPAT ABB=ON PLU=ON L19 NOT L14

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L20 ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 144:222226 MARPAT Full-text

TITLE: Electroluminescent materials and devices based on aromatic substituted anthracene dopants mixed with a host material

INVENTOR(S): Kathirgamanathan, Poopathy

PATENT ASSIGNEE(S): Elam-T Limited, UK

SOURCE: PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2006016176	A1	20060216	WO 2005-GB3173	20050812
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,			

10/549,430

ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1786885 A1 20070523 EP 2005-797974 20050812

R:    AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,  
      IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

US 2007252108      A1      20071101      US 2007-659919      20070210

KR 2007042574      A      20070423      KR 2007-705636      20070309

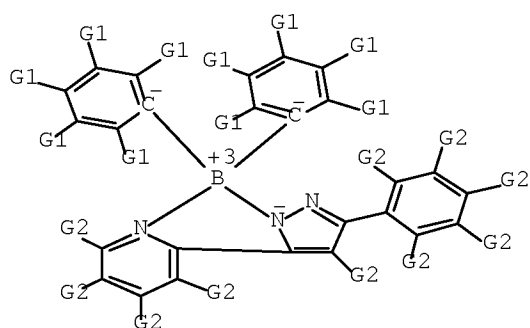
PRIORITY APPLN. INFO.:

GB 2004-17927 20040812

WO 2005-GB3173 20050812

AB Electroluminescent compns. are described which comprise a dopant which is an aromatic substituted anthracene compound mixed with a host material. Electroluminescent devices employing the electroluminescent compns. are also discussed.

MSTR 4



Patent location:

claim 10

Note:

additional ring formation also claimed

REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE  
RE FORMAT

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(FILE 'HOME' ENTERED AT 10:50:22 ON 20 DEC 2007)

FILE 'HCAPLUS' ENTERED AT 10:50:28 ON 20 DEC 2007

L1 1 SEA ABB=ON PLU=ON US20070042219/PN  
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2524-52-9/BI OR 302-01-2/BI OR 403-42-9/BI OR 4426-21-5/BI  
OR 671791-16-5/BI OR 767340-41-0/BI OR 767340-42-1/BI OR  
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767340-46-5/BI OR 767340-47-6/BI OR 767340-48-7/BI OR  
767340-49-8/BI OR 98-86-2/BI)  
L3 10 SEA ABB=ON PLU=ON L2 AND 1/B  
L4 STR  
L5 0 SEA SSS SAM L4

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L7 387 SEA ABB=ON PLU=ON DH IS

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L8 STR L4  
L9 0 SEA SSS SAM L8  
L10 17 SEA ABB=ON PLU=ON 1341.1442/RID  
L11 STR L8  
L12 1 SEA SSS SAM L11  
L13 17 SEA SSS FUL L11  
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L14 4 SEA ABB=ON PLU=ON L13

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L15 0 SEA ABB=ON PLU=ON L13

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L16 0 SEA ABB=ON PLU=ON L13  
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L18 0 SEA SSS SAM L11  
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L20 1 SEA ABB=ON PLU=ON L19 NOT